

Matching Parent Functions

1. Absolute value

2. Quadratic

3. Cubic

4. Square Root

5. Exponential

6. Natural Log

7. Trigonometric

8. Linear

9. Inverse

A. $y = x$

B. $y = |x|$

C. $y = x^2$

D. $y = \frac{1}{x}$

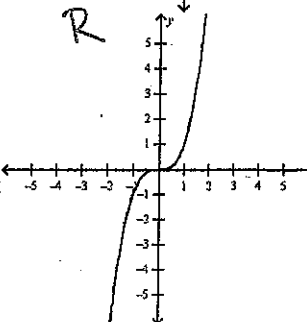
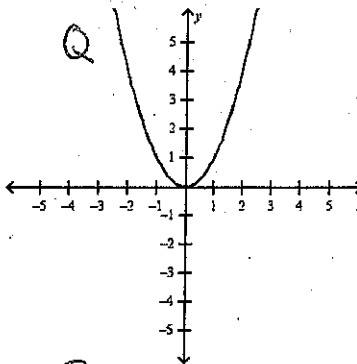
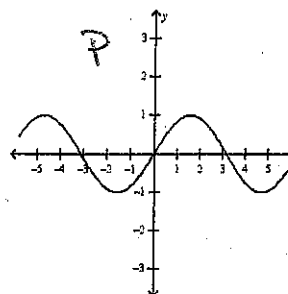
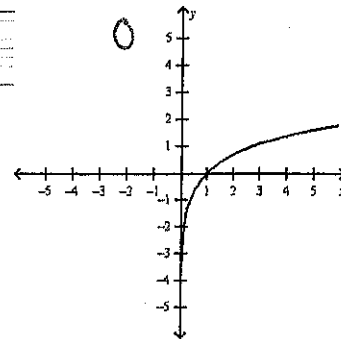
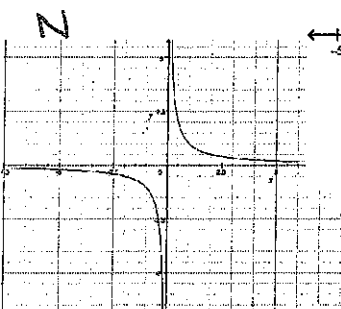
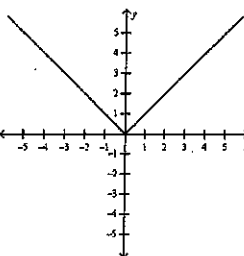
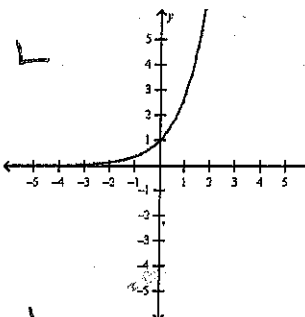
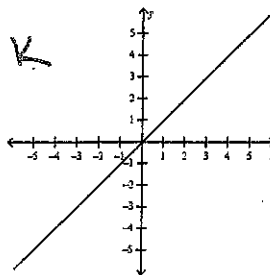
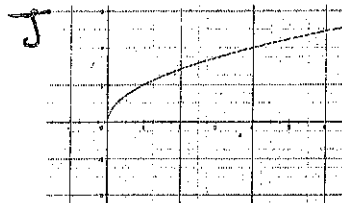
E. $y = \sqrt{x}$

F. $y = e^x$

G. $y = \sin x$

H. $y = \ln x$

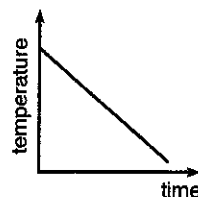
I. $y = x^3$



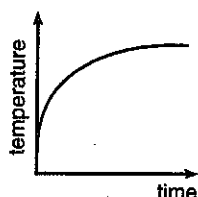
LESSON 1.4

For each set of graphs, choose the one that best matches the situation. Write a sentence explaining your choice.

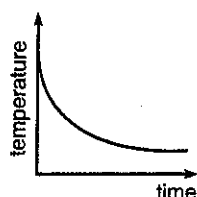
1. After death, a body cools to the temperature of the room.



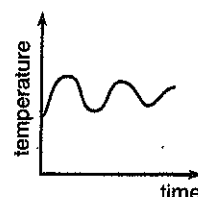
a.



b.

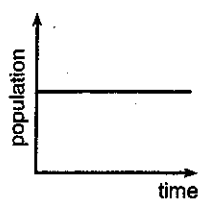


c.

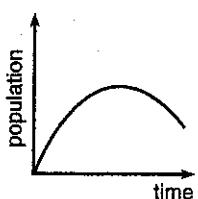


d.

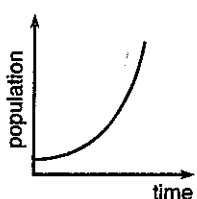
2. The population has been increasing over the years.



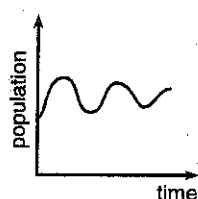
a.



b.

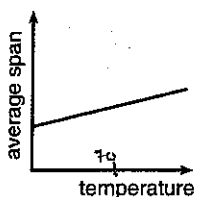


c.

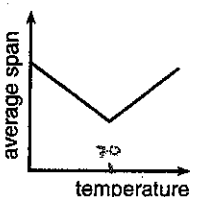


d.

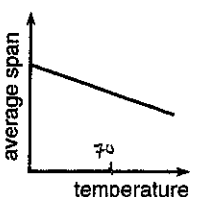
3. The ideal temperature for a classroom is around 70°F . When the temperature rises above 70°F , the average student's attention span decreases. Similarly, if the temperature falls below 70°F , the attention span again will decrease.



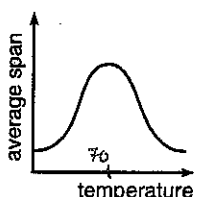
a.



b.

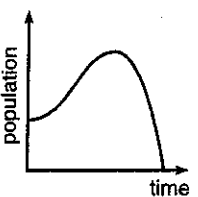


c.

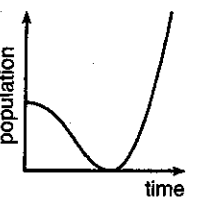


d.

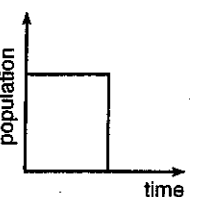
4. In the 1930s in Arizona, the deer population first increased and then decreased until deer became extinct.



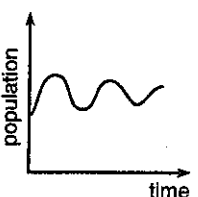
a.



b.



c.



d.